

Title (en)
CRYOGENIC FLUID TANK AND ITS USE

Title (de)
KRYOGENER FLÜSSIGKEITSTANK UND SEINE VERWENDUNG

Title (fr)
RÉSERVOIR DE FLUIDE CRYOGÉNIQUE ET SON UTILISATION

Publication
EP 2726375 A1 20140507 (FR)

Application
EP 12734985 A 20120625

Priority
• FR 1155948 A 20110701
• FR 2012051449 W 20120625

Abstract (en)
[origin: WO2013004942A1] Cryogenic fluid tank for space launcher comprising at least one wall (3) delimiting a storage volume for cryogenic fluid, said wall (3) being furnished, on at least one part of its interior surface, with a thermal insulation comprising a so-called upper layer (2) intended to be in contact with the fluid stored in the storage volume, characterized in that the upper layer (2) comprises an insulating material covered, on its face intended to be in contact with the cryogenic fluid stored in the tank, with a leaktight envelope forming a leaktight barrier between the cryogenic fluid stored and the insulating material, and in that the insulating material of the upper layer (2) is completely encapsulated in a leaktight envelope, that is to say the insulating material is covered by the leaktight envelope over the whole of its surface.

IPC 8 full level
F17C 13/00 (2006.01); **B64G 1/40** (2006.01); **F02K 9/60** (2006.01)

CPC (source: EP US)
B64G 1/402 (2013.01 - US); **B64G 1/4021** (2023.08 - EP); **F02K 9/605** (2013.01 - EP US); **F17C 13/001** (2013.01 - US)

Citation (search report)
See references of WO 2013004942A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
FR 2977239 A1 20130104; **FR 2977239 B1 20151023**; EP 2726375 A1 20140507; EP 2726375 B1 20160406; EP 2726375 B2 20190508; US 2014117021 A1 20140501; WO 2013004942 A1 20130110

DOCDB simple family (application)
FR 1155948 A 20110701; EP 12734985 A 20120625; FR 2012051449 W 20120625; US 201214128432 A 20120625